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`	Application No.	Applicant(s)	
Notice of Allowability	09/547,415	JAIN ET AL.	
	Examiner	Art Unit	
	Dawn Garrett	1774	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS nerewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.37	S (OR REMAINS) CLOSED 5) or other appropriate comm RIGHTS. This application is	nunication will be mailed in	due course. THIS
. This communication is responsive to the amendment after		<u> 2003</u> .	
t. ⊠ The allowed claim(s) is/are <u>43</u> .			
3. $igspace$ The drawings filed on <u>12-16-2002</u> are accepted by the E	xaminer.		
Acknowledgment is made of a claim for foreign priority	under 35 U.S.C. § 119(a)-(d) or (f).	
a) ☐ All b) ☐ Some* c) ☐ None of the:			
 Certified copies of the priority documents ha 			
2. Certified copies of the priority documents ha	ive been received in Applica	tion No	
 Copies of the certified copies of the priority of 	documents have been receiv	ed in this national stage ap	plication from the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
 Acknowledgment is made of a claim for domestic priority reference was included in the first sentence of the specif 	ication or in an Application L	Data Sheet. 37 CFR 1.78.	since a specific
(a) The translation of the foreign language provisiona	il application has been recei	/ed.	
 Acknowledgment is made of a claim for domestic priority in the first sentence of the specification or in an Application 	under 35 U.S.C. §§ 120 and ion Data Sheet. 37 CFR 1.78	d/or 121 since a specific ref 3.	erence was included
Applicant has THREE MONTHS FROM THE "MAILING DATE" below. Failure to timely comply will result in ABANDONMENT	of this communication to file of this application. THIS THE	e a reply complying with the HREE-MONTH PERIOD IS	requirements noted NOT EXTENDABLE.
 A SUBSTITUTE OATH OR DECLARATION must be sub INFORMAL PATENT APPLICATION (PTO-152) which g 	omitted. Note the attached E gives reason(s) why the oath	XAMINER'S AMENDMENT or declaration is deficient.	or NOTICE OF
 CORRECTED DRAWINGS (as "replacement sheets") n including changes required by the Notice of Draftsp 	nust be submitted. erson's Patent Drawing Rev	iew (PTO-948) attached	
1) hereto or 2) to Paper No	•	·	
(b) ☐ including changes required by the proposed drawing	a correction filed . W	nich has been approved by	the Examiner.
(c) ☐ including changes required by the attached Examin	er's Amendment / Comment	or in the Office action of Pa	aper No
Identifying indicia such as the application number (see 37 CF) each sheet. Replacement sheet(s) should be labeled as such	R 1.84(c)) should be written o in the margin according to 37	n the drawings in the front (n CFR 1.121(d).	ot the back) of
9. DEPOSIT OF and/or INFORMATION about the de attached Examiner's comment regarding REQUIREMENT FOR	posit of BIOLOGICAL MARTHE DEPOSIT OF BIOLO	TERIAL must be submit GICAL MATERIAL.	ted. Note the
Attachment(s)			
1 ☐ Notice of References Cited (PTO-892)	5☐ Notice of	nformal Patent Application	(PTO-152)
2 Notice of Draftperson's Patent Drawing Review (PTO-948	6 Interview	Summary (PTO-413), Pape	_{r No. 200} 40108
3 Information Disclosure Statements (PTO-1449 or PTO/SB/	10.03	s Amendment/Comment	
Paper No 4 Examiner's Comment Regarding Requirement for Deposit	t 8□ Examiner	8 Examiner's Statement of Reasons for Allowance	
of Biological Material	9∏ Other	•	

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EXAMINER'S AMENDMENT

- 1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
- 2. Authorization for this examiner's amendment was given in a telephone interview with Hung Chang Lin on January 8, 2004.
- 3. Claim 43 has been amended as follows:

A p-n-p configuration electroluminescent (EL) device, comprising successively layers of:

a p-type silicon layer on <u>an</u> insulator substrate, comprising thin doped Si p/p+ regions separated by insulating regions[, such as SiO₂,] wherein said p+ regions are contacted to form bottom electrodes;

a thin-layer of Si which allows further epitaxial growth;

a p+ - type Si layer, having addressing contact electrodes;

a thin (about 10 nm) SiO₂ layer deposited and patterned with a pitch of about 0.1 microns;

a n-Si layer forming nanotips;

an n-type wide energy gap layer selected from the group of semiconductors consisting of $Zn_aMg_{1-a}Se$, $Zn_aMg_{1-a}S$, $Zn_aMg_{1-a}S_bS_{1-b}$, $Zn_aBe_{1-a}S_bS_{1-b}$, $Al_cGa_{1-c}N$, ZnMgBeSe, and AlInN, stacked on layer with nanotips;

a layer comprising cladded quantum dots;

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a *p-type* [wider] wide energy gap [(than said wide *p*-wide energy gap layer)]
semiconductor[s] layer selected from the group of semiconductors consisting of: Zn_aMg_{1-a}Se,
Zn_aMg_{1-a}S, Zn_aMg_{1-a}S_bS_{1-b}, Zn_aBe_{1-a} S_bS_{1-b}, Al_cGa_{1-c}N, ZnMgBeSe, and AlInN; and
a layer forming contact electrodes, wherein said set of electrodes being appropriately biased and addressed to create a two-dimensional display.



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4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dawn Garrett whose telephone number is (571) 272-1523. The examiner can normally be reached Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cynthia Kelly can be reached at (571) 272-1526. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-1700.

D.G. January 8, 2004

Cyth Akell